AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

 (Currently Amended) A nonvolatile magnetic memory device of the type having: a first wiring;

a second wiring intersecting three-dimensionally with said first wiring; and a tunnel magnetoresistance element which is electrically insulated from said first wiring and electrically connected to said second wiring and which is formed in the region of intersection of said first wiring and said second wiring such that a tunnel insulating layer is sandwiched between ferromagnetic materials which change in resistance depending on whether the spin direction is parallel or antiparallel, thereby recording information; wherein

said magnetic memory device comprises a magnetic flux concentrator of highpermeability layer formed at least on adjacent the lateral sides of said first wiring
and on the a side of said first wiring which is opposite to the side facing said tunnel
magnetoresistance element, with at least either of said high permeability layer
formed on the lateral sides of said first wiring projecting from said-first wiring
toward said tunnel magnetoresistance element.

- 2. (Currently Amended) The magnetic memory device as defined in Claim 1, wherein the magnetic flux concentrator has the high-permeability layer formed also on the surface of the first wiring elose to facing the tunnel magnetoresistance element.
- 3. (Currently Amended) The magnetic memory device as defined in Claim 42, wherein an insulating film is formed between the magnetic flux concentrator and the first wiring.

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4. (Canceled)

- 5. (Currently Amended) A nonvolatile magnetic memory device of the type having:
 - · a first wiring;
 - a second wiring intersecting three-dimensionally with said first wiring; and
- a tunnel magnetoresistance element which is electrically insulated from said first wiring and electrically connected to said second wiring and which is formed in the region of intersection of said first wiring and said second wiring such that a tunnel insulating layer is sandwiched between ferromagnetic materials which change in resistance depending on whether the spin direction is parallel or antiparallel, thereby recording information; wherein

said magnetic memory device comprises a magnetic flux concentrator of highpermeability layer formed at least on adjacent the lateral sides of said second
wiring and on the side of said second wiring which is opposite to the side facing said
tunnel magnetoresistance element, with at least either of said high permeability
layer formed on the lateral sides of said second wiring projecting from said second
wiring toward said tunnel magnetoresistance element.

- 6. (Currently Amended) The magnetic memory device as defined in Claim 5, wherein the magnetic flux concentrator has the high-permeability layer formed also on the surface of the second wiring elose to facing the tunnel magnetoresistance element.
- 7. (Currently Amended) The magnetic memory device as defined in Claim 5 6, wherein an insulating film is formed between the magnetic flux concentrator and the second wiring.

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Claim 8. (Canceled)

- 9. (Currently Amended) A nonvolatile magnetic memory device of the type having:
 - a first wiring;
- a second wiring intersecting three-dimensionally with said first wiring; and a tunnel magnetoresistance element which is electrically insulated from said first wiring and electrically connected to said second wiring and which is formed in the region of intersection of said first wiring and said second wiring such that a tunnel insulating layer is sandwiched between ferromagnetic materials which change in resistance depending on whether the spin direction is parallel or

said magnetic memory device comprises a magnetic flux concentrator of high-permeability layer formed between said first wiring and said tunnel magnetoresistance element and on <u>adjacent</u> the lateral sides of said tunnel magnetoresistance element, with an insulating film interposed <u>therebetween</u>.

antiparallel, thereby recording information; wherein

- 10. (Currently Amended) A nonvolatile magnetic memory device of the type having:
 - a first wiring;
 - a second wiring intersecting three-dimensionally with said first wiring; and
- a tunnel magnetoresistance element which is electrically insulated from said first wiring and electrically connected to said second wiring and which is formed in the region of intersection of said first wiring and said second wiring such that a tunnel insulating layer is sandwiched between ferromagnetic materials which change in resistance depending on whether the spin direction is parallel or antiparallel, thereby recording information; wherein

said magnetic memory device comprises a first magnetic flux concentrator of high-permeability layer formed at least en adjacent both of the lateral sides of said

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first wiring and on the side of said first wiring which is opposite to the side facing said tunnel magnetoresistance element, and a second magnetic flux concentrator of high-permeability layer formed between said first wiring and said tunnel magnetoresistance element and on adjacent the lateral sides of said tunnel magnetoresistance element, with an insulating film interposed therebetween.

- 11. (Original) The magnetic memory device as defined in Claim 10, wherein an insulating film is formed between the first magnetic flux concentrator and the first wiring.
- 12. (Currently Amended) The magnetic memory device as defined in Claim 8 9, wherein at least either of the high-permeability layers formed on the lateral sides of the first wiring projects from beyond the first wiring and toward the tunnel magnetoresistance element.
- 13. (Original) The magnetic memory device as defined in Claim 12, wherein an insulating film is formed between the first magnetic flux concentrator and the first wiring.
- 14. (Currently Amended) A nonvolatile magnetic memory device of the type having:
 - a first wiring;
 - a second wiring intersecting three-dimensionally with said first wiring; and
- a tunnel magnetoresistance element which is electrically connected to said first wiring through a switching element and is electrically connected to said second wiring and which is formed in the region of intersection of said first wiring and said second wiring such that a tunnel insulating layer is sandwiched between ferromagnetic materials which change in resistance depending on whether the spin direction is parallel or antiparallel, thereby recording information; wherein

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said magnetic memory device comprises a magnetic flux concentrator of highpermeability layer formed at least en <u>adjacent</u> both of the lateral sides of said first wiring and en <u>adjacent</u> the side of said first wiring which is opposite to the side facing said tunnel magnetoresistance element, with at least either of said highpermeability layer formed on the lateral sides of said first wiring projecting from said first wiring toward said tunnel magnetoresistance element, and

wherein the switching element is formed substantially co-extensive with the tunnel magnetoresistance element.

- 15. (Original) The magnetic memory device as defined in Claim 14, wherein an insulating film is formed between the magnetic flux concentrator and the tunnel magnetoresistance element.
- 16. (Currently Amended) A nonvolatile magnetic memory device of the type having:
 - a first wiring;
 - a second wiring intersecting three-dimensionally with said first wiring; and
- a tunnel magnetoresistance element which is electrically connected to said first wiring through a switching element and is electrically connected to said second wiring and which is formed in the region of intersection of said first wiring and said second wiring such that a tunnel insulating layer is sandwiched between ferromagnetic materials which change in resistance depending on whether the spin direction is parallel or antiparallel, thereby recording information; wherein

said magnetic memory device comprises a magnetic flux concentrator of highpermeability layer formed at least en <u>adjacent</u> both of the lateral sides of said
second wiring and en <u>adjacent</u> the side of said second wiring which is opposite to the
side facing said tunnel magnetoresistance element, with at least either of said highpermeability layer formed on the lateral sides of said second wiring projecting from
said second wiring toward said tunnel magnetoresistance element, <u>and</u>

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wherein the switching element is formed substantially co-extensive with the tunnel magnetoresistance element.

- 17. (Currently Amended) The magnetic memory device as defined in Claim 16, wherein the magnetic flux concentrator has the high-permeability layer formed also on adjacent the surface of the second wiring elese to facing the tunnel magnetoresistance element.
- 18. (Original) The magnetic memory device as defined in Claim 16, wherein an insulating film is formed between the magnetic flux concentrator and the second wiring.
- 19. (Currently Amended) The magnetic memory device as defined in Claim 16, wherein the magnetic flux concentrator has the high-permeability layer formed, with an insulating film interposed, also en adjacent the surface of the second wiring elese to facing the tunnel magnetoresistance element.

Claims 20. - 38. (Canceled)

Please add the following new claims:

39. (New) The magnetic memory device as defined in Claim 1, wherein at least either of said high-permeability layer formed adjacent the lateral sides of said first wiring projects beyond said first wiring and toward said tunnel magnetoresistance element.

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40. (New) The magnetic memory device as defined in Claim 5, wherein at least either of said high-permeability layer formed adjacent the lateral sides of said second wiring projects beyond said second wiring and toward said tunnel magnetoresistance element.